Subject: strange postscript error on certain IDL plots
Posted by Brian McNoldy on Wed, 05 Nov 2014 14:41:31 GMT
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I have some code that has been around and working perfectly for probably 10 years. It creates an EPS file, nothing fancy. I just tried using it this week and now I'm unable to view or convert the EPS file... I get the following error from ghostscript or ImageMagick:
Error: /rangecheck in --colorimage--

I am able to view and convert other EPS files, even others made by IDL in other programs. I'm using IDL 8.2, and my DEVICE command is simply:
```
 device,file=path+title+'.eps',/encapsulated,/portrait,/inche s,$
  xsize=xs,ysize=ys,/color,bits=8
```

This program does make plots using two separate color tables, one after the other. I plot topography in grayscale and then overlay contours in color. This was never a problem before though. If I comment out the topography plotting, it works, and I can view/convert the resulting EPS file. Will IDL no longer allow me to do this? An example plot can be found at http://andrew.rsmas.miami.edu/bmcnoldy/tmp/MAY_2000-2009_SST .eps-1.png

My question to the group is what could possibly be causing this new postscript error?

Thanks,
Brian

Subject: Re: strange postscript error on certain IDL plots
Posted by David Fanning on Wed, 05 Nov 2014 15:16:11 GMT
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Brian McNoldy writes:

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>
> My question to the group is what could possibly be causing this new postscript error?

How long have you been working with computers? Practically anything, I would say. Quién sabe!

Cheers,

David

P.S. I doubt this has anything to do with IDL, though. Do you have example code to create the PostScript file?

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: strange postscript error on certain IDL plots
Posted by David Fanning on Wed, 05 Nov 2014 16:10:35 GMT
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David Fanning writes:

> P.S. I doubt this has anything to do with IDL, though. Do you have
> example code to create the PostScript file?

No attempt to get anything right, except the same kind of plot you are creating. It works great for me! Using IDL 8.2.3 on Windows.

```
image = cgDemoData(7)
image = cgScaleVector(image, -200.0, 1500.)
map = cgMap('Equirectangular', Limit=[-90, -180, 90, 180])
image = Shift(image, 180, 0)
dims = Size(image, /Dimensions)
lons = cgScaleVector(Findgen(dims[0]), -180, 180)
lats = cgScaleVector(Findgen(dims[1]), -90, 90)
cgLoadCT, 0
pos = [0.1, 0.3, 0.9, 0.9]
map -> SetProperty, Position=pos
cgDisplay
cgImage, image, Position=pos, /Scale, /Save, $
   XRange=[-180,180], YRange=[-90,90]
cgColorbar, Range=[Min(image), Max(image)], $
   Position=[0.1, 0.1, 0.4 , 0.15]
map -> Draw
```

```
cgMap_Grid, /Box, Map=map
conColors = ['red6', 'grn6', 'yellow', 'blu6']
TVLCT, cgColor(conColors, /Triple), 1
cgContour, image, lons, lats, Levels=[500, 750, 1000, 1200], $
   /Fill, /Overplot, Map=map, C_Colors=Bindgen(4)+1B
cgColorBar, Range=[500, 1200], Divisions=3, $
   Position=[0.6, 0.1, 0.9 , 0.15], NColors=4,Bottom=1
END
```

Code I used to create the plot:

```
  IDL> cgPS_Open, 'test.ps'
  IDL> .Run ps_example
  IDL> cgPS_Close, /PNG, DELETE_PS=0
```

Cheers,

David

--
David Fanning, Ph.D.
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